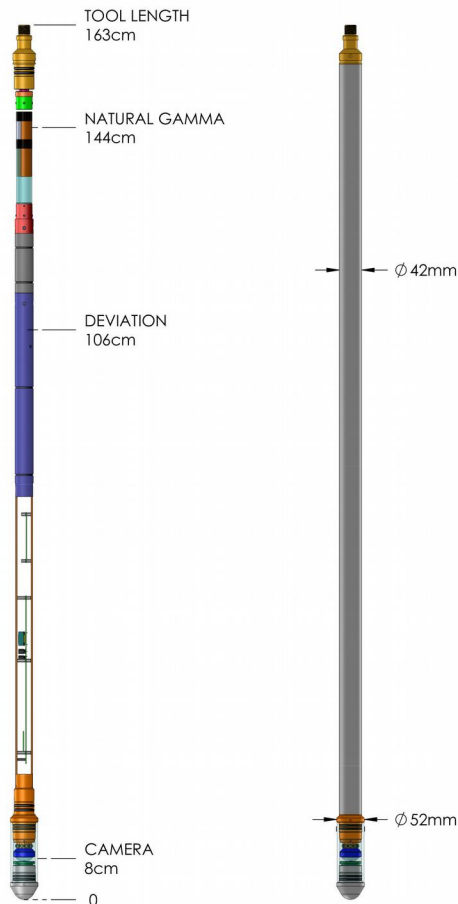


OPTICAL TELEVIEWER PROBE OPTV52 / OPTV52G



A precision wide angle lens and a CMOS camera assembly permit the **OPTV52** probe to capture a high-definition video image of the borehole wall in a variety of horizontal and vertical resolutions. The resulting image data is digitised in the probe and combined with orientation sensor parameters for transmission to the surface.

The orientated image log provides a wealth of information relevant to a wide variety of applications. These include fracture detection and analysis, bedding or foliation dip and direction, lithological characterisation and core sample orientation.

As an option, the probe can be supplied with a natural gamma detector to provide additional lithological information or for horizon correlation purposes. A high-pressure version (200 bar / $\varnothing 62$ mm) is also available.

Specifications

- Diameter : 52 mm
- Length : 1 630 mm
- Weight : 7 kg
- Max. operating temperature : 60 °C
- Max. operating pressure : 100 bar
- Housing type : titanium and non-magnetic brass

Data / sensor parameters

- Camera sensor : 1 280 x 1 024 pixels CMOS
- Image format : 24-bit RGB
- Horizontal resolution : 360 to 1 440 pixels
- Vertical resolution : defined by logging speed
- Orientation sensor : triple magnetometers / accelerometers
- Orientation precision : $\pm 0.5^\circ$ inclination, $\pm 1^\circ$ azimuth

Accessories / options

- Natural gamma detector : $\varnothing 25 \times 50$ mm NaI(Tl) crystal
- High-pressure version : $\varnothing 62$ mm / 200 bar ($\pm 2\ 000$ m)
- Non-magnetic centralisers
- Sinker weight
- Image reference calibrator

Borehole conditions

- Open borehole : either dry or clean water-filled
- Probe must be centralised
- Recommended diameter range : 60 to 450 mm